rational Application No

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 801J2/16 801J8/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
احسنا		*
X	US 2 635 684 A (MANDEVILLE JOSCELYNE FRANCIS) 21 April 1953 (1953-04-21)	1÷3
Y .		4-7
•	column 2, line 38 - column 3, line 17; figure	
Υ .	US 5 213 820 A (UHLEMANN HANS ET AL) 25 May 1993 (1993-05-25)	4-7
	column 4, line 24 - line 35; figure 1	
A	EP 1 312 410 A (FREUND IND CO LTD) 21 May 2003 (2003-05-21)	1-7
	column 9, line 27 - column 12, line 10; figure 1	
	-/	
•	·	
		• •
		· · ·

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	*** ** ** ** ** ** ** ** ** ** ** ** **
Date of the actual completion of the international search 2 September 2004	Date of mailing of the international search report 09/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Cubas Alcaraz, J

INTERNATIONAL SEARCH REPORT

Immational Application No

C.(Continue	ion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °		Relevant to daim No.
A	US 3 036 338 A (HERMAN NACK) 29 May 1962 (1962-05-29) column 5, line 65 - column 8, line 26; figure 1 US 4 946 653 A (STOPP GERHARD ET AL) 7 August 1990 (1990-08-07) column 1, line 60 - column 3, line 13; figure 1	1-7
•		
		•
		•

INTERNATIONAL SEARCH REPORT

Information on patent family members

eational Application No

[/EP2004/005377

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2635684 A	21-04-1953	NONE	
US 5213820 A	25-05-1993	DE 3808277 A1 DE 58900108 D1	21-09-1989 13-06-1991
*		EP 0332929 A1 JP 1274832 A JP 2811578 B2	20-09-1989 02-11-1989 15-10-1998
EP 1312410 A	21-05-2003 ⁻	JP 2002018266 A EP 1312410 A1 WO 0183098 A1 US 2003190417 A1	22-01-2002 21-05-2003 08-11-2001 09-10-2003
US 3036338 A	29-05-1962	NONE	
US 4946653 A	07-08-1990	DE 3206236 A1 DE 3360248 D1 EP 0087039 A1	01-09-1983 18-07-1985 31-08-1983
		ES 8400891 A1 JP 1604366 C JP 2026536 B JP 58170534 A MX 162274 A	16-02-1984 22-04-1991 11-06-1990 07-10-1983 19-04-1991